

Application No. 09/965,137
Amendment dated November 11, 2005

Amendments to the Claims:

1. (Currently Amended) A method for delivering content to a mobile device from a network site where the mobile device and network site may each employ different communication protocols, ~~programming and mark-up~~ languages, and/or natural language formats relative to each other, the method comprising:

receiving a communication from the mobile device corresponding to a request for content from the network site;

identifying the communication protocols, the ~~programming and~~ mark-up languages, and the natural language formats employed by the mobile device and the network site;

determining which of the identified communication protocols, ~~programming and~~ mark-up languages, and natural language formats differ between the mobile device and the network site;

converting the request in regard to whichever of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the request differs between the mobile device and the network site, such that each of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the converted request matches the communication protocol, ~~programming and~~ mark-up language, and natural language format of the network site;

converting the content in regard to whichever of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the content differs between the mobile device and the network site according to instructions stored in a database management system (DMS) that directs what network events are to be retrieved from the network site, such that each of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the converted content matches the communication protocol, ~~programming and~~ mark-up language, and natural language format of the mobile device; and

transmitting the converted content to the mobile device in the communication protocol, ~~programming and~~ mark-up language, and natural language format of the mobile device.

2. (Previously Presented) A method according to claim 1, further comprising signaling the converted request to the network site.

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3. (Currently Amended) A method according to claim 1, wherein identifying the communication protocol, the ~~programming and~~ mark-up language, and the natural language format employed by the mobile device comprises accessing a database that is accessible by the DMS comprising communication protocol, ~~programming and~~ mark-up language, and natural language format properties of different types of mobile devices.

4. (Currently Amended) A method according to claim 1, wherein identifying the communication protocol, the ~~programming and~~ mark-up language, and the natural language format employed by the network site comprises accessing a database that is accessible by the DMS comprising communication protocol, ~~programming and~~ mark-up language, and natural language format properties of different network sites.

5. (Currently Amended) A method according to claim 1, wherein identifying the communication protocol, the ~~programming and~~ mark-up language, and the natural language format employed by the network site comprises querying the network site.

6. (Currently Amended) A method according to claim 1, wherein identifying the communication protocol, the ~~programming and~~ mark-up language, and the natural language format employed by the mobile device uses a serial number, device ID, or useragent and other request header information of the mobile device to make the identifications.

7. (Currently Amended) A device for exchanging communications between a mobile device and a network site and delivering content to the mobile device from the network site, where the mobile device and network site may each employ different communication protocols, ~~programming and~~ mark-up languages, and/or natural language formats relative to each other, the device comprising:

computer executable logic embodied in a computer readable medium for taking a communication received from the mobile device corresponding to a request for content from the network site and identifying a communication protocols, the ~~programming and~~ mark-up languages, and the natural language formats employed by the mobile device and the network site;

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computer executable logic embodied in a computer readable medium for determining which of the identified communication protocols, ~~programming and~~ mark-up languages, and natural language formats differ between the mobile device and the network site;

computer executable logic embodied in a computer readable medium for converting the request in regard to whichever of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the request differs between the mobile device and the network site, such that each of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the converted request matches the communication protocol, ~~programming and~~ mark-up language, and natural language format of the network site;

computer executable logic embodied in a computer readable medium for converting the content in regard to whichever of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the content differs between the mobile device and the network site according to instructions stored in a database management system (DMS) that directs what network events are to be retrieved from the network site, such that each of the communication protocol, ~~programming and~~ mark-up language, and natural language format of the converted content matches the communication protocol, ~~programming and~~ mark-up language, and natural language format of the mobile device; and

computer executable logic embodied in a computer readable medium for causing the converted content to be transmitted to the mobile device in the communication protocol, ~~programming and~~ mark-up language, and natural language format of the mobile device.

8. (Previously Presented) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for signaling the converted request to the network site.

9. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for identifying the communication protocol, the ~~programming and~~ mark-up language, and the natural language format employed by the mobile device accesses a database that is accessible by the DMS comprising communication protocol,

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~~programming and mark-up language, and natural language format properties of different types of mobile devices.~~

10. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for identifying the communication protocol, the ~~programming and mark-up language, and the natural language format employed by the network site~~ accesses a database that is accessible by the DMS comprising communication protocol, ~~programming and mark-up language, and natural language format properties of different network sites.~~

11. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for identifying the communication protocol, the ~~programming and mark-up language, and the natural language format employed by the network site~~ queries the network site.

12. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for identifying the communication protocol, the ~~programming and mark-up language, and the natural language format employed by the mobile device~~ uses a serial number, device ID, or useragent and other request header information of the mobile device to make the identifications.

13. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least two different protocols.

14. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least three different protocols.

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15. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least two different ~~programming and~~ mark-up languages.

16. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least three different ~~programming and~~ mark-up languages.

17. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least two different natural language formats.

18. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of converting the communications between at least three different natural language formats.

19. (Currently Amended) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for identifying a communication protocol, a ~~programming and~~ mark-up language, and a natural language format employed by the mobile device uses a serial number, device ID, or useragent and other request header information of the mobile device to make the identifications.

20. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content is capable of converting the communication to be exchanged between program languages selected from the group consisting of HDML, WML, HTML, MML and CHTML.

21. (Previously Presented) A device according to claim 7, wherein the computer executable logic embodied in a computer readable medium for converting the content and the request is capable of

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converting the communications between natural language formats for countries and geographic regions selected from the group consisting of Japan, United States of America, Korea, China and Europe.

22. (Previously Presented) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for providing a user interface by which a range of different mobile devices which may access content from the network site may be defined.

23. (Previously Presented) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for providing a user interface by which a range of different mobile devices which may access content from the network site may be defined based on the natural language format employed by the mobile device.

24. (Currently Amended) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for providing a user interface by which a range of different mobile devices which may access content from the network site may be defined based on the programming and mark-up language employed by the mobile device.

25. (Previously Presented) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for providing a user interface by which a range of different mobile devices which may access content from the network site may be defined based on the communication protocol employed by the mobile device.

26. (Previously Presented) A device according to claim 7, further comprising computer executable logic embodied in a computer readable medium for providing a graphical user interface to enable the rapid development of mobile applications by aiding the process of aggregating instruction sets to be executed in batches.